

What is claimed is:

1. A reactor assembly comprising a substantially elongate tubular housing, at least one reactant inlet, at least one reaction mixture outlet disposed above the at least one reactant inlet, and agitator disposed in a region near the at least one reactant inlet and a perforated member disposed in tubular housing between the agitator and the reaction mixture outlet.  
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2. The reactor assembly defined in claim 1, wherein the perforated member is a disc.  
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3. The reactor assembly defined in claim 1, wherein the perforated member comprises apertures.
4. The reactor assembly defined in claim 1, wherein the perforated member comprises slots.  
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5. The reactor assembly defined in claim 1, wherein the perforated member occupies substantially the entire cross section of the tubular housing substantially transverse to its longitudinal axis.  
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6. The reactor assembly defined in claim 1, wherein the reactor assembly comprises a plurality of reactant inlets.
7. The reactor assembly defined in claim 1, comprising a plurality of perforated members.  
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8. The reactor assembly defined in claim 2, wherein the perforated member occupies substantially the entire cross section of the tubular housing substantially transverse to its longitudinal axis.  
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9. The reactor assembly defined in claim 9, wherein the perforated member comprises apertures.

10. A modular reaction system comprising a plurality of reactor assemblies as  
5 defined in any preceding claim, wherein the reactor assemblies are connected in series.

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